INDEX RUBBER CHEMISTRY AND TECHNOLOGY VOLUME XIII, 1940

AUTHORS

	Page
ALEKSANDROV, A. P., AND LAZURKIN, YU. S. Polymers. I. Highly elastic deformation of polymers. II. Dynamic method of studying elastic materials. III. Technique of mechanical tests of	
vulcanizates of rubber and plastics. ALTMAN, R. F. A. Analysis of proteins present in Hevea latex. See also Kraay, G. M.	886 505
AMPHLETT, P. H. See Twiss, D. F.	750
ARIANO, R. Resistance of rubber to dynamic forces. I	81 92
Beaver, D. J. See Booth, E. W. Beelev, F. See Davey, W. S. Beelev, F. See Davey, W. S. Behere, Johannes, and Göhde, Karl. New method of investigation in the evaluation of fillers	
BEHRE, JOHANNES, AND GÖHDE, KARL. New method of investigation in the evaluation of fillers for the rubber industry. BEKKEDALL, NORMAN. See Wood, Lawrence A. BOOTH, E. W., AND BRAVER, D. J. Vulcanization of rubber compounds. Effect of hydrogen	112
BOOTH, E. W., AND BRAVER, D. J. Vulcanization of rubber compounds. Effect of hydrogen sulfide on rate of vulcanization	918
BUSSE, WARREN F. Effect of vulcanization on rubber structure. A problem in probabilities	196
CARMAN, F. H., POWERS, P. O. AND ROBINSON, H. A. Swelling of synthetic rubbers in	304
CARPANTER, A. S., AND TWISS, D. F. Measuring permeability of rubber to various gases See also Twiss, D. F. Measuring permeability of rubber to various gases	986 326
CARAERA, EDMONDO. Quantitative determination of zinc in transparent rubber articles	181
of Hevea, Manihot and other rubbers. , and Rhodes, Herbert D. Practical evaluation of commercial rubber carbon blacks	42
by x-ray diffraction COTTON, F. H., AND HODSON, W. F. Mixing and moulding without mastication CRUDE RUBBER COMMITTEE. Report of the Crude Rubber Committee	667
Tentative procedures for testing the variability of normal and concentrated latex	441 136
DANIEL, F. K. Dispersion of pigments in aqueous medium. I. Mechanism and evaluation of dispersing agents. II. Induced dilatancy and its relation to dispersion	619
DEKKER, P. Contributions to the analysis of rubber. IV. Determination of manganese in crude rubber, in rubber mixtures and in fillers	432
DE VRIES, O. Specific gravity of rubber in Hevea latex DUBINKER, YU. B. See Frumkin, L. S. DUFRAISSE, CHARLES, AND LE BRAS, JEAN. Applications of the manometric method for measuring	130
the oxidizability of rubber. Oxidizability and aging in the Geer oven	604
ECCHER, SILVIO. Action of ozone in the phenomenon of the cracking of rubber subjected to repeated mechanical stresses	566
FERRY, JOHN D. See Spence, D. FIELD, J. E. See Gehman, S. D.	
FIELD, J. E. See Gehman, S. D. FIELDING, J. H. Low-temperature set as a measure of state of vulcanization FISHER, HARRY L. Vulcanization of rubber	222 50
FRENKEL, J. A theory of elasticity, viscosity and swelling in polymeric rubberlike substances FROLICH, P. K. See Sparks, W. J.	264
FRUMKIN, L. S., AND DUBINKER, YU. B. Heat conductivity of rubber	361
GEHMAN, S. D., AND FIELD, J. E. Colloidal structure of rubber in solution. Colloidal aspects of vulcanization	275
Gerer, R. H. Temperature coefficient of vulcanization	255
products	676
GROSS, SIEGFRIED T. See Clark, George L. GROSSE, ARISTID V., MORRELL, JACQUE C., AND MAVITY, JULIAN M. Catalytic dehydrogenation of monoblefins to diolefins. Source materials for synthetic rubber and resins	533
HASTINGS, J. D., AND RHODES, EDGAR. Effect of rubber variability on vulcanization	209 65
HASTINGS, J. D., AND RHODES, EDGAR. Effect of rubber variability on vulcanization HAUSER, E. A., AND BROWN, J. R. Chemical reactions during vulcanization —, AND LEGGETT, M. B. Color reactions between clays and amines	942 243

AUTHOR INDEX

THICT THE TWO SALES AND THE TW

Al A

The state of the s	Page
HOCK, LOTHAR AND LEBER, HEINRICH. Effect of silent electric discharges on rubber solutions	831
HOBSON, W. F. See Cotton, F. H. HOESTEA, J. Stability of chlorinated rubber and its fractions	582
HUBLIN, R. A. A new method of determination of fillers in vulcanized rubber	931
HUBUKAWA, ZYUNEI, AND NAKAGUTI, KOHEL. Synthetic rubber from acetylene. III. Preparation of butadiene by catalytic hydrogenation of monovinylacetylene in the gaseous phase	856 858
Ingmanson, J. H. See Kemp, A. R. IPATEFF, VLADIMIR N., AND SCHAAD, RAYMOND E. Destructive hydrogenation of high-molecular weight polymers. Isobutene polymer, butadiene polymer, and natural rubber	849
JONES, H. C. Refractometer studies on rubber-pigment mixtures	649
Kemp, A. R., Ingmanson, J. H., and Mueller, G. S. Oxidation of vulcanized rubber. Effect of temperature, state of cure and thickness. Malm, F. S., Winspear, G. G., and Stiratelli, B. Diffusion of sulfur in rubber, and Peters, H. Molecular weight of sol and gel in crude Hevea rubber	875 807
sol and get in <i>nevea</i> faces and crude rubber. Intended of oxidation on get-sol transformation.———, and Stratisfs. W. G. Hevea latex. Effect of proteins and electrolytes on its colloidal	28
behavior	705
KIRSCH, W. See Thiessen, P. A. KLEBSATTEL, C. A. See Sparks, W. J. KONNEY, D. M. AND POSYNKY, V. Machanical properties of your and unleading without during	
periodic deformation Kosten, C. W. Rubber as antivibration material. KRAAT, G. M., AND ALTMAN, R. F. A. Notes on the method of Roberts for the analysis of	316 686
KRAAY, G. M., AND ALTMAN, R. F. A. Notes on the method of Roberts for the analysis of raw rubber	124
	969
LARRICK, LEWIS. Standardization of Durometers	
LEGGETT, M. B. See Hauser, E. A. LICHTENBERGER, J., AND NAFTALI, M. Action of pyridine on chlorinated rubber LIGHTBOWN, I. E. See Sparks, W. J.	133
MCCOLM, E. M. Hevea latex sludge. Existence of a sludge fraction in fresh unpreserved latex MCGAYACK, J. Hevea latex of large particle size AND RHINES, C. A. Hevea latex. Correlation of nitrogen and ash with total solids content. MALM, F. S. See Kemp, A. R. MARK, H., AND POSNANSKY, K. W. New types of transformation products of rubber MARKER, RUSSELL E., AND WITTLE, EUGENE L. Sterols. L. The isolation of caoutchicol MAVITY, JULIAN M. See GROSSE, ARISTID V.	517 415 744
MARK, H., AND POSNANSKY, K. W. New types of transformation products of rubber	519 302
Medvedchuk, P. I., Khimudis, N. S., and Nemirovskii, Ya. N. Vulcanization of rubber in an ultra-high frequency field	262
MERRILL, R. A. See Cadwell, S. M. MISCH, Lore C., and Van Der Wyk, A. J. A. Lattice of rubber	557
MEDVEDCHUR, P. I., KHIMUDIS, N. S., AND NEMIROVSKII, YA. N. Vulcanization of rubber in an ultra-high frequency field. MELVILLE, H. W. Mechanism of polymerization reactions. MERRILL, R. A. See Cadwell, S. M. MISCH, LORE C., AND VAN DER WYK, A. J. A. Lattice of rubber. MORRELL, JACQUE C. See Grosse, Aristid V. MUELLER, G. S. See Kemp, A. R.	
Naftali, M. See Lichtenberger, J.	*
NAKAGUTI, KOHEI. See Hurukawa, Zyunzi. Nemirovskii, Ya. N. See Medvedchuk, P. I.	
NEMIROVSKII, YA. N. See Medvedchuk, P. I. NEWTON, R. G. Quantitative method of expressing flex-cracking results NORTON, FRANCIS J. Action of ozone on rubber and other materials NUMAMIRI, SERITI. Studies of hard rubber reactions. VI. Liberation of so-called free sulfur and changes in the acetone extract of vulcanized rubber by repeated extraction and heating. VII. True free sulfur from pure rubber-sulfur compound and changes in the acetone extract during repeated extraction and heating.	694 576
changes in the acetone extract of vulcanized rubber by repeated extraction and heating VII. True free sulfur from pure rubber-sulfur compound and changes in the acetone extract during repeated extraction and heating VIII. The corrected coefficient of vulcanization and its upper limit in the accelerated raw-	598 601
VIII. The corrected coefficient of vulcanization and its upper limit in the accelerated raw- rubber compound	926
OSBERG, E. V. History of the Division of Rubber Chemistry of the American Chemical Society	1
PAIMER, HENRY F., AND KILBOURNE, F. L., JR. Chloroform extract of reclaimed rubber PARK, C. R. Relations between vulcanization and reinforcement	633 103 539
adsorbing carbon tetrachloride vapor. PERIN, R. J. Effect of operating conditions on the life of rubber belts PETERS, CHAUNCEY G. See Wood, Lawrence A. PETERS, H. See Kemp, A. R.	437 962
PINNELL, C. R. See Griffiths, J. P. POBNANSKY, K. See Mark, K.	
Powers, P. O. See Carman, F. H. Poznyak, V. See Korniel'd, M.	

	Page
RHINES, C. E. See McGavack, J.	
RHINES, C. E. See McGavack, J. RHODES, EDGAR, AND SMITH, H. FAIRFIELD. Viscosity of preserved and concentrated latex. I. Relationship between dry rubber content and viscosity See also Hastings, J. D.	474
See also Hastings, J. D. RHODES, HERBERT D. See Clark, George L. ROBINSON, H. A. See Carman, F. H.	
ROELIG, H. Buna in the manufacture of cables	948
of stretch	348
SAUTER, ERWIN. Macromolecular compounds. CCXVI. Determination of the lattice of rubber SCHAAD, RAYMOND E. See Ipatieff, Vladimir, N. SCHALLAMACH, ADOLF. Heat conductivity of rubber at low temperatures	284
SCHALLAMACH, ADOLP. Heat conductivity of rubber at low temperatures	830 285
Schweitzer, Otto. Creaming of rubber latex	408
SCHWARZENBACH, H. A. Light scattering in stretched rubber. SCHWEITZER, OTTO. Creaming of rubber latex. SIBIRIAKOFF, I. Tensile tests of plantation rubber. SIBIRIAKOFF, I. Tensile tests of plantation rubber. SIBIRIAKOFF, See Cadwell, S. M. SMITH, H. FAIRFIELD. Specific gravity of latex and of rubber.	451
SMITH, H. FAIRFIELD. Specific gravity of latex and of rubber. See also Rhodes, Edgar. SMITH, I. N. See Hauser, E. A. SMITH, W. HAROLD. See Clark, George L. SNYDER, J. W. See Wiegand, W. B. SPARKS, W. J., LIGHTBOWN, I. E., TURNER, L. B., FROLICH, P. K., AND KLESSATTEL, C. A. Rubberlike properties of polybutene. SPENCE, D., AND FERRY, JOHN D. Some causes of variation in the quality of raw rubber and latex. The soil red ratio in relation to the ultimate physical properties of rubber.	485
SMITH, W. HAROLD. See Clark, George L.	
SNYDER, J. W. See Wiegand, W. B. SPARKS, W. J., LIGHTBOWN, I. E., TURNER, L. B., FROLICH, P. K., AND KLEBSATTEL, C. A. Rub-	
berlike properties of polybutene	521
and the second of the second o	
STARKWEATHER, HOWARD W., AND WAGNER, FREDERICK C. Neoprene cements	549 159
STRATELLI, B. See Kemp, A. R. STRAITIFF, W. G. See Kemp, A. R. STURGIS, B. M. See Williams, Ira.	
STURGIS, B. M. See Williams, Ira.	
THIESSEN, P. A., AND KIRSCH, W. Crystallization of weakly vulcanized rubber by pressure	48
THOMAS, A. Problem of crude rubber. TRELOAR, L. R. G. Elastic recovery and plastic flow in raw rubber. TRISTRAM, G. R. Proteins of Hevea brasiliensis. I. Analysis of a product isolated from dried	468 795
TRISTRAM, G. R. Proteins of Hevea brasiliensis. I. Analysis of a product isolated from dried latex	722
TUKAMOTO, TADASI. See Hurukawa, Zyunzi.	
latex TUKAMOTO, TADASI. See Hurukawa, Zyunzi. TURNER, L. B. See Sparks, W. J. TWISS, D. F. Control by individual incorporation of vulcanizing agents.	249
, CARPENTER, A. S., AND AMPHLETT, P. H. Consequences of the electrical double layer in	1
rubber technology	611
VAN DALFSEN, J. W. Determination of the water absorption of crude rubber and of vulcanized rubber	
VAN DER WYK, A. J. A. See Misch, Lore C.	761
Dialysis of latex and the properties of dialyzed latex	728
rubber VAN DER WYK, A. J. A. See Misch, Lore C. VAN GILS, G. E. Contribution to knowledge of the creaming process Dialysis of latex and the properties of dialyzed latex. Specific gravity of rubber and of serum in Hevea latex. VILA, GEORGE R. Critical analysis of the T-50 test for state of yulcanization.	422 389
WILLIAMS INA Vulcenizing from a thermodynamic viewscist	49 235
WAGNER, FREDERICK C. See Starkweather, Howard W. WIEGAND, W. B., AND SNYDER, J. W. The Joule effect WILLIAMS, IRA. Vulcanizing from a thermodynamic viewpoint, AND STURGIS, B. M. Composite nature of the stress-strain curve of rubber WINSPEAR, G. G. See Kemp, A. R. WINSPEAR, G. G. See Kemp, A. R.	74
WITTLE, EUGENE L. See Marker, Russell E. WOOD, LAWRENCE A. Synthetic rubbers. A review of their compositions, properties and uses. ——————————————————————————————————	. 861
	290
Wren, W. G. Application of latex to highway and floor surfacing	979
YERZLEY, FELIX L. Adhesion of Neoprene to metal	166
SUBJECTS	
SUBJECTS	
Absorption, water, of crude and vulcanized rubber Acetone extract, changes in, during repeated extraction and heating of vulcanized rubber during extraction and heating of vulcanized rubber. Acetylene. Synthetic rubber from	. 601 . 601 . 598 . 598
Action of ozone in the phenomenon of the cracking of rubber subjected to repeated mechanica stresses on rubber and other materials.	. 566
Action of pyridine on chlorinated rubber	133
Activity of carbon black, determination of	437
Aging in Geer oven	604

Dyna for me sill ru ter vu Elasi re Elas Elec Elec Eval fil Expe

Fatile de forman de forman

	Pag
American Chemical Society, History of Division of Rubber Chemistry of	0.4
Amines, color reactions between clays and	50
Analysis of a product isolated from dried latexproteins present in Hevea latex	50
raw rubber, method of Roberts for	12
	43
Antivibration material, rubber as	68
Antivibration material, rubber as. Application of latex to highway and floor surfacing. the interferometer to the measurement of dimensional changes in rubber.	29
Applications of the manometric method for measuring the oxidizability of rubber. Oxidizability	20
and aging in the Geer oven	60
and aging in the Geer oven	74
Belts, life of rubber	965
Butadiene nolymer destructive hydrogenation	849
Buna in the manufacture of cables Butadiene polymer, destructive hydrogenation Butadiene, preparation of, by catalytic hydrogenation of monovinylacetylene in the gaseous	
pnase	856
solution	858
Children Dung in manufacture of	948
Cables, Buna in manufacture of.	302
Carbon black, activity of	487
Carbon blacks, practical evaluation of commercial rubber	655
Carbon black, activity of. Carbon blacks, practical evaluation of commercial rubber. Carbon tetrachloride vapor, power of carbon black to adsorb. Catalytic dehydrogenation of monoölefins to diolefins. Source materials for synthetic rubber	437
and resins	538
Cements, Neoprene	159
Unanges, dimensional, in rubber. Chamical reactions during vulcanization	290
and resins Cements, Neoprene Changes, dimensional, in rubber. Chemical reactions during vulcanization Chlorinated rubber, action of pyridine on	133
stability of	582
Chars and smines color reactions between	683 942
Coefficient, temperature, of vulcanization.	255
Colloidal behavior of Hevea latex, effect of proteins and electrolytes on	705
Chlorinated rubber, action or pyrione on stability of Chloriorim extract of reclaimed rubber. Clays and amines, color reactions between Coefficient, temperature, of vulcanization. Colloidal behavior of Hevea latex, effect of proteins and electrolytes on structure of rubber in solution. Colloidal aspects of vulcanization. Color reactions between clays and amines.	275 942
Color reactions between clays and amines. Committee, Crude Rubber, Report of. Composite nature of the stress-strain curve of rubber.	441
Composite nature of the stress-strain curve of rubber	74
Conductivity of subbar heat	474 361
at low temperatures, heat	830
Concentrated latex, viscosity of. Conductivity of rubber, heat. Consequences of the electrical double layer in rubber technology.	611
Contribution to knowledge of the creaming process. Contributions to the analysis of rubber. IV. Determination of manganese in crude rubber, in rubber mixtures and in fillers. Control by individual incorporation of vulcanizing agents.	761
rubber mixtures and in fillers	432
Control by individual incorporation of vulcanizing agents	249
Cracking, flex-	694 566
Cracking, flex- of rubber, action of ozone in	408
DIOCESS	761
process Critical analysis of the T-50 test for state of vulcanization Crude Hevea rubber, sol and gel in Rubber Committee, Report of	389
Rubber Committee, Report of	441
	539
rubber, problem of. rubber, sol and gel in Hevea latex and. rubber, water absorption of.	468
rubber, water absorption of	400
Crystallization of crude rubber	539
or weakly vuicanized rubber by pressure	48
Descritive rubber products	676
Deformation, periodic, mechanical properties during.	316
Decorative rubber products. Deformation, periodic, mechanical properties during. Dehydrogenation, catalytic, of monoölefins to diolefins. Destructive hydrogenation of high-molecular weight polymers. Isobutene polymer, butadiene polymer and natural rubber. Determination of fillers in vulcanized rubber.	533
Destructive hydrogenation of high-molecular weight polymers. Isobutene polymer, butadiene	841
Determination of fillers in vulcanized rubber.	931
lattice of rubber mixtures and fillers the water absorption of crude rubber and of vulcanized rubber.	284
manganese in crude rubber mixtures and fillers.	432
zinc in transparent rubber articles.	181
Dialysis of latex and the properties of dialyzed latex	181 728
Diffusion of sulfur in rubber	807
Dilatancy, induced, and its relation to dispersion	619
Dialysis of latex and the properties of dialyzed latex. Diffraction patterns of Hevee, Manihot and other rubbers. Diffusion of sulfur in rubber. Dilatancy, induced, and its relation to dispersion. Dimensional changes in rubber, measurement of.	000
Dispersing agents, evaluation	290
	619
II. Induced dilatancy and its relation to dispersion	619
Dispersion of pigments in aqueous medium. I. Mechanism and evaluation of dispersing agents. II. Induced dilatancy and its relation to dispersion. Division of Rubber Chemistry of American Chemical Society, History of.	619 619
Dispersing agents, evaluation. Dispersing agents, evaluation. II. Induced dilatancy and its relation to dispersion agents. Division of Rubber Chemistry of American Chemical Society, History of Double layer, electrical, consequences of Dry rubber content and viscosity of latex. Durometers, standardization of	619

993

	Page
Dynamic fatigue life of rubber	804
forces, resistance of rubber to	81 898
Effect of operating conditions on the life of rubber beltssilent electric discharges on rubber solutions	962
silent electric discharges on rubber solutions.	881 209
temperature on exidation of vulcanized rubber	875
rubber variability on vulcanization. temperature on oxidation of vulcanized rubber vulcanization on rubber structure. A problem in probabilities.	196
Elastic deformation of polymers. recovery and plastic flow in raw rubber. Elasticity, in polymeric rubber-like substances, theory of. Electric discharges on rubber solutions, effect of silent. Electrical double layer, consequences of, in rubber technology. Electrolytes, effect on colloidal behavior of Hevea latex. Evaluation of commercial rubber carbon blacks by x-ray diffraction. fillers for rubber industry, new method.	886
recovery and plastic flow in raw rubber.	795
Electric discharges on rubber solutions, effect of silent.	264 831
Electrical double layer, consequences of, in rubber technology.	611
Electrolytes, effect on colloidal behavior of Hevea latex	705
Evaluation of commercial rubber carbon blacks by x-ray diffraction	655
Experiments on the determination of the activity of carbon black by its power of adsorbing	114
carbon tetrachloride vapor	437
	304
Fillers, determination in vulcanized rubber	931
determination of manganese in	432
for the rubber industry	112
in vulcanized rubber.	981 694
Fatigue life of rubber, dynamic. Fillers, determination in vulcanized rubber determination of manganese in for the rubber industry in vulcanized rubber. Flex-cracking results, quantitative method of expressing. Free sulfur from pure rubber-sulfur compound.	601
liberation of	598
liberation of so-called	601
Gases, permeability of rubber to various.	326
Gases, permeability of rubber to various. Geer oven, aging in. Gel in crude Hevea rubber. in Hevea latex and crude rubber.	604
Gel in crude Hevea rubber.	11
In Deves latex and crude rubber	28
Hard rubber reactions	
Heat conductivity of rubber	361
at low temperatures. Hevea latex. Correlation of nitrogen and ash with total solids content. Effect of proteins and electrolytes on its colloidal behavior.	830 744
Effect of proteins and electrolytes on its colloidal behavior	MAK
of large particle size	415
sludge. Existence of a sludge fraction in fresh unpreserved latex	517 262
History of the Division of Rubber Chemistry of the American Chemical Society.	1
Hydrogen sulfide, effect of, on rate of vulcanization	918
Hydrogenation of high-molecular-weight polymers, destructive	849 858
of large particle size. sludge. Existence of a sludge fraction in fresh unpreserved latex. High frequency field, ultra, vulcanization in. History of the Division of Rubber Chemistry of the American Chemical Society. Hydrogen sulfide, effect of, on rate of vulcanization. Hydrogenation of high-molecular-weight polymers, destructive. monovinylacetylene in solution. monovinylacetylene in the gaseous phase.	856
Incorporation of vulcanizing agents. Interferometer, application of, to measurement of dimensional changes in rubber. Irradiation, ultraviolet Isobutene polymer, butadiene polymer and natural rubber.	249
Interferometer, application of, to measurement of dimensional changes in rubber	549
Isobutene polymer, butadiene polymer and natural rubber	849
	49
Joule effect	-
Latex, analysis of a product isolated from dried correlation of nitrogen and ash with total solids content. creaming of rubber dialysis of	722
correlation of nitrogen and ash with total solids content	744 408
creaming of ruoder.	728
effect of proteins and electrolytes	705
of large particle size, Hevea	415
preservation of, by sterilization in the presence of a buffer solution.	787 505
separation and identification of lecithins from Hevea.	750
sludge, Hevea	517
specific gravity of	485
specine gravity of rubber and of serum.	130
variability of normal and concentrated latex	186
variation in quality of raw rubber and	185
Viscosity of	547
creaming of rubber dialysis of effect of proteins and electrolytes. of large particle size, Hevea. preservation of, by sterilization in the presence of a buffer solution. proteins present in. separation and identification of lecithins from Hevea. sludge, Hevea specific gravity of. specific gravity of rubber and of serum. specific gravity of rubber in. variability of normal and concentrated latex. variation in quality of raw rubber and. viscosity of Lattice of rubber. determination_of	284
Lecithins from Hevea latex, separation and identification of	750
Life of rubber belts, effect of operating conditions on	962
Low temperatures, heat conductivity of rubber at.	830
determination of Lecithins from Hevea latex, separation and identification of. Life of rubber belts, effect of operating conditions on. Light scattering in stretched rubber. Low temperatures, heat conductivity of rubber at. Low temperature-set as a measure of state of vulcanization.	222
Macromolecular compounds. CCXVI. Determination of the lattice of rubber	
Manganese in crude rubber, mixtures and fillers	435
Manihot, x-ray diffraction patterns of	45
Manometric method for measuring oxidizability of rubber	604

Set, le Sludge Sol an Hew Sol an Hew Sol-gel Solutie Solutie Solutie Solutie Solutie Stabil Stabil Stand State vule T-5 Steril Sterol Stress Strete vul Strete vul Strete Struc Struc Struc Struc Struc Struc Struc Struck

v vi

Sulfu Swel in Synt Synt II

T-50
Tem
ef
Ten
to
Ten
Test
The
The
The
Tra

Ult

Var Va Vil Vis Vu

	T ag
Measuring permeability of rubber to various gases. Mechanical oscillograph for routine tests of rubber and rubber-like materials. Mechanical properties of raw and vulcanized rubbers during periodic deformation. Mechanical stresses, cracking of rubber subjected to repeated. Mechanical tests of vulcanizates of rubber and plastics. Mechanism of polymerization reactions. Metal, adhesion of Neoprene to. Mineral oils, swelling of synthetic rubbers in.	320 149 310 560 90 55' 160 930
Metal, adhesion of Neoprene to. Mineral oils, swelling of synthetic rubbers in. Mixing and moulding without mastication. Molecular weight of sol and gel in crude Hevea rubber Monooilefins, catalytic dehydrogenation of. Monovinylacetylene, hydrogenation of, in the gaseous phase. Monovinylacetylene in solution, butadiene from.	66° 13 533 856 856 66°
Neoprene, Adhesion of, to metal. cements New method of determination of fillers in vulcanized rubber. investigation in the evaluation of fillers for the rubber industry. New types of transformation products of rubber. Nitrogen and ash of Hevea latex. Notes on the method of Roberts for the analysis of raw rubber.	166 159 931 119 519 744 126
Ornamental rubber products Oscillograph, mechanical, for routine tests Dicidation, influence of, on gel-sol transformation of vulcanized rubber. Effect of temperature, state of cure and thickness Oxidizability of rubber, manometric method for measuring Ozone, action of, in cracking of rubber. action of, on rubber.	676 149 28 379 604 566 576
Particle size, Hevea latex of large Permeability of rubber to various gases Physical properties of rubber, ultimate Pigment mixtures, rubber, refractometer studies of Plantation rubber, tensile tests of Plantation rubber, tensile tests of Plastic flow in raw rubber Polybutene, rubberlike properties of Polybutene, rubberlike properties of	418 326 188 648 619 451 798
Clastic now in raw rubber Polybutene, rubberlike properties of Polybutene, rubberlike properties of Polymeric rubber-like substances. Polymerization reactions, mechanism of Polymers, destructive hydrogenation of high-molecular-weight I. Highly elastic deformation of polymers II. Dynamic method of studying elastic materials	521 264 551 849 886 898
Colymeric rubber-like substances. Polymeris, destructive hydrogenation of high-molecular-weight. I. Highly elastic deformation of polymers. II. Dynamic method of studying elastic materials. III. Technique of mechanical tests of vulcanizates of rubber and plastics. Practical evaluation of commercial rubber carbon blacks by x-ray diffraction. Preservation of latex by sterilization in the presence of a buffer solution. Preserved and concentrated latex, viscosity of. Pressure, Crystallization of weakly vulcanized rubber by pressure. Problem of crude rubber. Procedures for testing variability of normal and concentrated latex.	904 654 783 474 464 136
Production of decorative and ornamental rubber products. Proteins, effect on colloidal behavior of Hevea latex of Hevea brasiliensis. I. Analysis of a product isolated from dried latex. present in Hevea latex. Pyridine, action on chlorinated rubber.	676 706 725 506 133
Quality of raw rubber and latex. Quantitative determination of zinc in transparent rubber articles. method of expressing fiex-cracking results. Rate of vulcanization effect of hydrogen sulfide on	188 181 694
Rate of vulcanization, effect of hydrogen sulfide on. Raw rubber and latex elastic recovery and plastic flow. Reactions between clays and amines, color chemical, during vulcanization Reclaimed rubber, chloroform extract of. Recovery, elastic, and plastic flow in raw rubber. Refractometer studies on rubber-pigment mixtures. Reinforcement, vulcanization and Relations between vulcanization and reinforcement.	188 798 945 68 683 798
Report of the Crude Rubber Committee	649 103 103 474 443 533 81
Resistance of rubber to dynamic forces. I. Roberts, method of, for analysis of raw rubber. Rubber as antivibration material Rubberlies properties of polybutene. Rubber-pigment mixtures, refractometer studies. stretched by forces in two directions perpendicular to one another.	686 521 649
second report of the investigation of the crystallization of crude rubbereparation and identification of lecitions from Hevea latex	750

995

	V2	
		Page
Set, low-temperature Sludge fraction in fresh unpreserved latex		222 517
Sol and gel in crude Hevea rubber		311
Hevea latex and crude rubber. Influence of oxidation on gel-sol transformation		28
Hevea latex and crude rubber. Influence of oxidation on gel-sol transformation Sol-gel ratio in relation to the ultimate physical properties of rubber		185
Solution. Colloidal structure of rubber in		275
Sol-gel ratio in relation to the ultimate physical properties of rubber. Solution. Colloidal structure of rubber in. Solutions, effect of silent electric discharges on. Some causes of variation in the quality of raw rubber and latex. The sol:gel ratic to the ultimate physical properties of rubber. Specific gravity of latex and of rubber. rubber and of serum in Hevea latex. rubber in Hevea latex. Stability of chlorinated rubber and its fractions.	o in relation	831
to the ultimate physical properties of rubber	***********	185
Specific gravity of latex and of rubber		485
rubber and of serum in Hevea latex		422
Stability of chlorinated rubber and its fractions.		130 582
Standardization of Durometers		969
Standardization of Durometers. State of cure, effect on oxidation of vulcanized rubber		375
vulcanization, measure of		222
T-50 test for. Sterilization of latex in presence of a buffer solution Sterols. L. The isolation of caoutchicol		389 787
Sterols, L. The isolation of caoutchicol.		302
Stress-strain curve of rubber		74
Stretch, High rates of		348
Stretch, High rates of		243 92
light scattering in		285
Structural studies of the vulcanization of rubber under stretch		243
Structure, enect of vulcanization on rubber		196
of rubber, colloidal		275
VI. Liberation of so-called free sulfur and changes in the acetone extract	of vulcanized	
rubber by repeated extraction and heating		598
VII. True free sulfur from the pure rubber-sulfur compound, and changes in	the acetone	
Studies of hard rubber reactions: VI. Liberation of so-called free sulfur and changes in the acetone extract rubber by repeated extraction and heating VII. True free sulfur from the pure rubber-sulfur compound, and changes in extract during repeated extraction and heating VIII. The corrected coefficient of vulcanization and its maximum value in a rubber compound. Sulfur in rubber, diffusion of Swelling of synthetic rubbers in mineral oils in polymeric rubber-like substances, theory of Synthetic rubber from acetylene: III. Preparation of butadiene by catalytic hydrogenation of monovinylacety gaseous phase	n accolorated	601
rubber compound	n accelerated	926
Sulfur in rubber, diffusion of		807
Swelling of synthetic rubbers in mineral oils		936
in polymeric rubber-like substances, theory of		264
Synthetic rubber from acetylene:		
III. Preparation of butadiene by catalytic hydrogenation of monovinylacety	lene in the	
gaseous phase IV. Preparation of butadiene by catalytic hydrogenation of monovinylacetylene Synthetic rubber and resing		856
IV. Preparation of butadiene by catalytic hydrogenation of monovinylacetylene	in solution.	858
rubbers. A review of their compositions, properties, and uses		533 861
Synthetic rubber and resins. rubbers. A review of their compositions, properties, and uses rubber, swelling in mineral oils		936
T-50 test for state of vulcanization		389
Temperature coefficient of vulcanization		255 375
effect of, on oxidation of vulcanized rubber		348
Tensie properties of rubber compounds at high rates of stretch. tests of plantation rubber. Tentative procedures for testing the variability of normal and concentrated latex. Testing variability of normal and concentrated latex. Theory of elasticity, viscosity and swelling in polymeric rubber-like substances. Thermodynamic viewpoint, vulcanization from a. Thickness, effect of oxidation of vulcanized rubber. Total solids content of Hevee latex.		451
Tentative procedures for testing the variability of normal and concentrated latex		136
Testing variability of normal and concentrated latex		136
Thermodynamic viewpoint, vulcanization from a		235
Thickness, effect of oxidation of vulcanized rubber		375
Total solids content of Hevea latex		744
resolvate new types of exidation on gel-sol		28 519
Total solids content of Hevea latex. Transformation, influence of oxidation on gel-sol. products, new types of. Transparent rubber articles.		181
Ultraviolet irradiation of rubber		549
Variability of normal and concentrated latex. rubber, effect on vulcanization. Variation in quality of raw rubber and latex.		136
rubber, effect on vulcanization		209
Vibration, anti-, material.		185
Vibration, anti- material. Viscosity in polymeric rubber-like substances, theory of		264
of preserved and concentrated latex. I. Relationship between dry rubber	content and	1
viscosity Vulcanization and reinforcement.		474
chemical reactions during.		108
chemical reactions during.		275
colloidal aspects of. effect of hydrogen sulfide on rate of. effect of rubber variability on. from a thermodynamic viewpoint.		. 918
trom a thermodynamic viewpoint		209
measure of state of	**********	285
of rubber compounds. Effect of hydrogen sulfide on rate of vulcanization		918
or rubber in an ultra-high frequency field		262
structural studies, of rubber under stretch	***********	248
of rubber compounds. Effect of hydrogen sulfide on rate of vulcanization of rubber in an ultra-high frequency field		. 889

	Page
Vulcanized rubber, crystallization of	48
oxidation of	375
Vulcanizing agents, control of	249
Water absorption of crude rubber and of vulcanized rubber	400
X-ray diffraction, evaluation of commercial rubber carbon blacks bypatterns of Hovea, Manihot and other rubbers	655
Zinc in transparent rubber articles	181

